

L Number	Hits	Search Text	DB	Time stamp
1	3109	polymer near membrane	USPAT	2003/10/20 11:12
2	1028	BATTERY NEAR SEPARATOR	USPAT	2003/10/20 11:12
3	531	429/247,249.CCLS.	USPAT	2003/10/20 11:12
4	8937	(POSITIVE POSITIVELY) NEAR (ION IONS IONIC)	USPAT	2003/10/20 11:13
5	3109	POLYMER NEAR MEMBRANE	USPAT	2003/10/20 11:13
6	346035	POLYETHYLENE POLYPROPYLENE	USPAT	2003/10/20 11:14
7	44	POLOLEFIN	USPAT	2003/10/20 11:14
8	474	522/150,157,161,162.CCLS.	USPAT	2003/10/20 11:14
10	128	522/2.CCLS.	USPAT	2003/10/20 11:35
11	3	522/2.CCLS. AND ((POSITIVE POSITIVELY) NEAR (ION IONS IONIC))	USPAT	2003/10/20 11:17
13	21	(429/247,249.CCLS. AND ((POSITIVE POSITIVELY) NEAR (ION IONS IONIC))) AND (POLYETHYLENE POLYPROPYLENE)	USPAT	2003/10/20 11:17
12	24	429/247,249.CCLS. AND ((POSITIVE POSITIVELY) NEAR (ION IONS IONIC))	USPAT	2003/10/20 11:22
14	156	429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)	USPAT	2003/10/20 11:22
15	116	(429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)) AND (POLYETHYLENE POLYPROPYLENE)	USPAT	2003/10/20 11:22
16	72	((429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)) AND (POLYETHYLENE POLYPROPYLENE)) AND (ION IONS)	USPAT	2003/10/20 11:23
18	17235	(ION IONS) SAME (IRRADIATE IRRADIATION RADIATION)	USPAT	2003/10/20 11:23
19	1427	(ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)	USPAT	2003/10/20 11:23
20	0	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND ((429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)) AND (POLYETHYLENE POLYPROPYLENE))	USPAT	2003/10/20 11:23
21	5	((ION IONS) SAME (IRRADIATE IRRADIATION RADIATION)) AND ((429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)) AND (POLYETHYLENE POLYPROPYLENE))	USPAT	2003/10/20 11:29
22	3	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (polymer near membrane)	USPAT	2003/10/20 11:30
23	1	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (BATTERY NEAR SEPARATOR)	USPAT	2003/10/20 11:31
24	0	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND 429/247,249.CCLS.	USPAT	2003/10/20 11:31
25	126	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND ((POSITIVE POSITIVELY) NEAR (ION IONS IONIC))	USPAT	2003/10/20 11:31
26	426	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND "54"	USPAT	2003/10/20 11:31
27	3	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYMER NEAR MEMBRANE)	USPAT	2003/10/20 11:31
28	176	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)	USPAT	2003/10/20 11:31
29	0	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)) AND ((522/002).CCLS.)	USPAT	2003/10/20 11:32
30	1	((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)) AND 522/2.CCLS.	USPAT	2003/10/20 11:32

31	5	(((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)) AND 522/150,157,161,162.CCLS.	USPAT	2003/10/20 11:32
32	5	((((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)) AND 522/150,157,161,162.CCLS.) NOT (((ION IONS) SAME (IRRADIATE IRRADIATION RADIATION)) AND ((429/247,249.CCLS. AND (BATTERY NEAR SEPARATOR)) AND (POLYETHYLENE POLYPROPYLENE)))	USPAT	2003/10/20 11:32
33	7	(((ION IONS) NEAR (IRRADIATE IRRADIATION RADIATION)) AND (POLYETHYLENE POLYPROPYLENE)) AND ((POSITIVE POSITIVELY) NEAR (ION IONS IONIC))	USPAT	2003/10/20 11:35
-	892	battery near separator	USPAT	2002/02/08 12:30
-	315016	polyolefin or polyethylene or polypropylene	USPAT	2002/02/08 12:31
-	31566	surface near treatment or surface near treating	USPAT	2002/02/08 12:32
-	6852	surface near hydrophilic or surface near hydrophobic	USPAT	2002/02/08 12:32
-	7225	surface near hydrophilic or surface near hydrophobic	USPAT; US-PGPUB	2002/02/08 12:32
-	1408	(surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)	USPAT; US-PGPUB	2002/02/08 12:33
-	897	((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)) and (polyolefin or polyethylene or polypropylene)	USPAT; US-PGPUB	2002/02/08 12:33
-	1453	(polymer near membrane) and (polyolefin or polyethylene or polypropylene)	USPAT; US-PGPUB	2002/02/08 12:33
-	15	(((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)) and (polyolefin or polyethylene or polypropylene)) and (polymer near membrane)	USPAT; US-PGPUB	2002/02/08 12:57
-	8	((("3231530") or ("3853601") or ("3951815") or ("4039440") or ("4340482") or ("4346142") or ("5085775") or ("5294346"))).PN.	USPAT	2002/02/08 13:08
-	505015	ion particles	USPAT	2002/02/08 13:12
-	13776	electron same irradiat\$4	USPAT	2002/02/08 13:09
-	23336	electron same radiat\$4	USPAT	2002/02/08 13:09
-	30889	(electron same irradiat\$4) or (electron same radiat\$4)	USPAT	2002/02/08 13:09
-	31566	(ion particles) same radiation irradiate	USPAT	2002/02/08 13:10
-	284938	radiation irradiate irradiation radiating irradiating	USPAT	2002/02/08 13:11
-	26566	(radiation irradiate irradiation radiating irradiating) same (ion particles)	USPAT	2002/02/08 13:11
-	27991	(radiation irradiate irradiation radiating irradiating) same electron	USPAT	2002/02/08 13:12
-	47402	((radiation irradiate irradiation radiating irradiating) same (ion particles)) or ((radiation irradiate irradiation radiating irradiating) same electron)	USPAT	2002/02/08 13:12
-	4507	ion adj bombardment	USPAT	2002/02/08 13:12
-	124	ionic adj particles	USPAT	2002/02/08 13:12

-	289	ion adj particles	USPAT	2002/02/08 13:13
-	26	{ion adj particles} same {radiation irradiate irradiation radiating irradiating }	USPAT	2002/02/08 13:13
-	7	{ionic adj particles} same {radiation irradiate irradiation radiating irradiating }	USPAT	2002/02/08 13:13
-	33	{{ion adj particles} same {radiation irradiate irradiation radiating irradiating }} or {{ionic adj particles} same {radiation irradiate irradiation radiating irradiating }}	USPAT	2002/02/08 13:13
-	0	{{(ion adj particles) same {radiation irradiate irradiation radiating irradiating }} or {{(ionic adj particles) same {radiation irradiate irradiation radiating irradiating }}} and {polymer near membrane}	USPAT	2002/02/08 13:13
-	0	{{(ion adj particles) same {radiation irradiate irradiation radiating irradiating }} or {{(ionic adj particles) same {radiation irradiate irradiation radiating irradiating }}} and {battery near separator}	USPAT	2002/02/08 13:13
-	10	{{(ion adj particles) same {radiation irradiate irradiation radiating irradiating }} or {{(ionic adj particles) same {radiation irradiate irradiation radiating irradiating }}} and {polyolefin or polyethylene or polypropylene}	USPAT	2002/02/08 13:17
-	320	522/157,158,159,161.ccls.	USPAT	2002/02/08 13:18
-	423	522/109,110,11,112.ccls.	USPAT	2002/02/08 13:18
-	0	522/157,158,159,161.ccls. and {ion adj bombardment}	USPAT	2002/02/08 13:18
-	0	522/157,158,159,161.ccls. and {ionic adj particles}	USPAT	2002/02/08 13:18
-	1	522/157,158,159,161.ccls. and {ion adj particles}	USPAT	2002/02/08 13:19
-	132	522/157,158,159,161.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}	USPAT	2002/02/08 13:19
-	3	{522/157,158,159,161.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and {polymer near membrane}	USPAT	2002/02/08 13:21
-	163	522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}	USPAT	2002/02/08 13:21
-	0	{522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and {polymer near membrane}	USPAT	2002/02/08 13:21
-	3	{522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and {battery near separator}	USPAT	2002/02/08 13:23
-	3	{{522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and {battery near separator}} not {{522/157,158,159,161.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and {polymer near membrane}}	USPAT	2002/02/08 13:24
-	55	{522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and vacuum	USPAT	2002/02/08 13:25
-	1	{{522/109,110,11,112.ccls. and {(electron same irradiat\$4) or (electron same radiat\$4)}} and vacuum} and {(surface near treatment or surface near treating) and {surface near hydrophilic or surface near hydrophobic}}	USPAT	2002/02/08 13:25

-	0	522/109,110,11,112.ccls. and (ion adj bombardment)	USPAT	2002/02/08 13:25
-	0	522/109,110,11,112.ccls. and (ionic adj particles)	USPAT	2002/02/08 13:25
-	97	522/157,158,159,161.ccls. and vacuum	USPAT	2002/02/08 13:26
-	1	(522/157,158,159,161.ccls. and vacuum) and ((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic))	USPAT	2002/02/08 13:26
-	77	(522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)	USPAT	2002/02/08 13:26
-	1	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and (polymer near membrane)	USPAT	2002/02/08 13:27
-	63	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and surface	USPAT	2002/02/08 13:27
-	6	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and hydrophilic	USPAT	2002/02/08 13:36
-	21211	polymer and membrane	EPO; JPO; DERWENT	2002/02/08 13:37
-	17899	battery and separator	EPO; JPO; DERWENT	2002/02/08 13:37
-	317557	polyolefin or polyethylene or polypropylene	EPO; JPO; DERWENT	2002/02/08 13:37
-	217	"ion particles"	EPO; JPO; DERWENT	2002/02/08 13:37
-	39	"ionic particles"	EPO; JPO; DERWENT	2002/02/08 13:37
-	241299	electron	EPO; JPO; DERWENT	2002/02/08 13:37
-	377541	irradiation radiation irradiate	EPO; JPO; DERWENT	2002/02/08 13:38
-	2272	(polymer and membrane) and (polyolefin or polyethylene or polypropylene)	EPO; JPO; DERWENT	2002/02/08 13:39
-	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and "ion particles"	USPAT	2002/02/08 13:39
-	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and electron	USPAT	2002/02/08 13:39
-	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:39
-	0	(battery and separator) and (polyolefin or polyethylene or polypropylene)	USPAT	2002/02/08 13:39
-	0	(battery and separator) and "ion particles"	USPAT	2002/02/08 13:39
-	0	(battery and separator) and "ionic particles"	USPAT	2002/02/08 13:39
-	0	(battery and separator) and electron	USPAT	2002/02/08 13:39
-	0	(battery and separator) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
-	0	(polymer and membrane) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
-	0	(polymer and membrane) and electron	USPAT	2002/02/08 13:40
-	0	(polymer and membrane) and "ionic particles"	USPAT	2002/02/08 13:40
-	0	(polymer and membrane) and "ion particles"	USPAT	2002/02/08 13:40
-	0	(polyolefin or polyethylene or polypropylene) and "ion particles"	USPAT	2002/02/08 13:40
-	0	(polyolefin or polyethylene or polypropylene) and "ionic particles"	USPAT	2002/02/08 13:40
-	0	(polyolefin or polyethylene or polypropylene) and electron	USPAT	2002/02/08 13:40

-	0	(polyolefin or polyethylene or polypropylene) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
-	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and (battery and separator)	USPAT	2002/02/08 13:41
-	231700	surface and modification	USPAT	2002/02/08 13:42
-	9358	surface and modification	EPO; JPO; DERWENT	2002/02/08 13:42
-	523	(surface and modification) and (polyolefin or polyethylene or polypropylene)	EPO; JPO; DERWENT	2002/02/08 13:42
-	56	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)	EPO; JPO; DERWENT	2002/02/08 13:43
-	28	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating	EPO; JPO; DERWENT	2002/02/08 13:43
-	64	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating	EPO; JPO; DERWENT	2002/02/08 13:43
-	16	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and electron	EPO; JPO; DERWENT	2002/02/08 13:47
-	0	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and "ionic particles"	EPO; JPO; DERWENT	2002/02/08 13:47
-	1	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and "ion particles"	EPO; JPO; DERWENT	2002/02/08 13:47